

ABSTRACT:

A light-emitting diode comprises a chip (1) emitting visible light of a first wavelength, a light-emitting surface and a phosphor layer provided on the light-emitting surface. Said phosphor layer is capable of converting light of the first wavelength to visible light of a second wavelength. According to the invention, a part of the light-emitting surface
5 is not covered with the phosphor layer. Preferably, the size of said surface is chosen to be such that by mixing emitted light of the first and the second wavelength substantially white light is obtained. Preferably, the surface that is not covered with the phosphor layer comprises a plurality of sub-surfaces, preferably arranged in the form of a pattern.

10 Fig
